

Potato Diffusion Lab

Name _____

Question: What will happen to the potato when placed in differently concentrated solutions?

Procedure:

1. Get 3 test tubes and fill them $\frac{3}{4}$ of the way with water.
2. Put 1 gram of salt into one of the test tubes and mix.
3. Put 3 grams of salt into another test tube and mix.
4. Do not add anything into the remaining test tube.
5. Get 9 potato slivers.
6. Weigh 3 slivers at a time and record the initial mass in the table below:

Test Tube	Initial Mass (g)	Final Mass (g)	%Change
Pure H ₂ O			
1 gram salt			
3 grams salt			

7. Place 3 slices that were weighed together into each test tube.
(keep track of things!)
8. Wait 45-60 minutes.

9. Pull the potatoes from the test tubes and weigh the 3 slivers together again. Record the final mass in the table above.

10. Determine the % change from each test tube and record in the table above.

Final Questions:

1. What happened to the potatoes?

2. What caused the results you received? Explain.